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**(54) CATALYST FOR CLEANING EXHAUST GAS AND
 CATALYST SYSTEM OF COMBINATION
 THEREOF**

the high efficiency over the wide temperature area
 regarding both NO_x and HC reduction.

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(57) Abstract:

PROBLEM TO BE SOLVED: To secure a wide temperature range of high catalytic activity by building up a precious metal plated layer on the surface of a stainless steel honeycomb substrate and thereby significantly improving the durability of a catalyst.

SOLUTION: A precious metal 5 is plated on a thin stainless steel sheet (foil), and the plated corrugated stainless steel sheet (foil) 4 and a plated unformed plain stainless steel sheet (foil) are stacked and rolled, so that honeycomb through holes are aligned. Consequently, a honeycomb catalyst with a uniformly air-permeable cross-section is obtained. The honeycomb catalyst plated with a precious metal, e.g. Ag which shows a high activity in a high temperature area is arranged in the upstream side of the roll. On the other hand, the honeycomb catalyst plated with a precious metal, e.g. Ir, Rh, Pd or Pt which shows the high activity in a medium or low temperature area, is arranged in the downstream side (in a catalytic converter) of the roll. Thus it is possible to achieve

